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C.C. Knight and G.A. Somorjai, The structure of sulfur overlayers on stepped Mo(910) and kinked Mo(28,4,1) single crystal surfaces 272 (1992) 326
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C.R. Henry, C. Chapon, C. Goyhenex and R. Monot, Size effect in the CO chemisorption on palladium clusters supported on magnesium oxide 272 (1992) 283
M. Sidoumou, T. Angot and J. Suzanne, Ethane adsorbed on MgO(100) single crystal surfaces: a high resolution LEED study 272 (1992) 347
M. Trabelsi and J.P. Coulomb, Thermodynamic study of ethane thin films adsorbed on MgO(100) powder 272 (1992) 352

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C.C. Knight and G.A. Somorjai, The structure of sulfur overlayers on stepped Mo(910) and kinked Mo(28,4,1) single crystal surfaces 272 (1992) 326

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A. Fricke, H. Graupner, L. Hammer and K. Müller, Structure and ordering of 2,3-dimethyl-2-butene and 2-butyne on the Ni(111) surface 272 (1992) 182
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F. Besenbacher, I. Stensgaard, L. Ruan, J.K. Nørskov and K.W. Jacobsen, Chemisorption of H, O, and S on Ni(110): general trends 272 (1992) 334

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T.U. Bartke, R. Franchy and H. Ibach, Adsorption and photoreactions of NO on Nb(110) at 20 K 272 (1992) 299

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A.E. Wiskerke, F.H. Geuzebroek, A.W. Kleyn and B.E. Hayden, A molecular beam study of the O_2–Pt(111) interaction 272 (1992) 256

L.K. Verheij, M. Freitag, M.B. Hugenschmidt, I. Kempf, B. Poelsema and G. Comsa, Autocatalytic behavior and role of oxygen diffusion in the hydrogen–oxygen reaction on Pt(111) 272 (1992) 276

R.J. Vreeburg, P.K. van Tongeren, O.L.J. Gijzeman and J.W. Geus, A comparison between the reduction kinetics of oxidized Ni(111) and Ni(100) surfaces by hydrogen and deuterium 272 (1992) 294

L.A. Silva and R.E. Palmer, Resonant electron-stimulated desorption of O^- ions from oriented O_2 on graphite 272 (1992) 313

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F. Besenbacher, I. Stensgaard, L. Ruan, J.K. Nørskov and K.W. Jacobsen, Chemisorption of H, O, and S on Ni(110): general trends 272 (1992) 334

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C.R. Henry, C. Chapon, C. Goyhenex and R. Monot, Size effect in the CO chemisorption on palladium clusters supported on magnesium oxide 272 (1992) 283

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T. Michely, T. Land, U. Littmark and G. Comsa, Morphological effects induced by the formation of a Pt-adatom lattice gas on Pt(111) 272 (1992) 204
A.E. Wiskerke, F.H. Geuzebroek, A.W. Kleyn and B.E. Hayden, A molecular beam study of the O_2–Pt(111) interaction 272 (1992) 256
B. Poelsema, A.F. Becker, G. Rosenfeld, R. Kunkel, N. Nagel, L.K. Verheij and G. Comsa, On the shape of the in-phase TEAS oscillations during epitaxial growth of Pt(111) 272 (1992) 269
L.K. Verheij, M. Freitag, M.B. Hugenschmidt, I. Kempf, B. Poelsema and G. Comsa, Autocatalytic behavior and role of oxygen diffusion in the hydrogen–oxygen reaction on Pt(111) 272 (1992) 276

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W. Akemann and A. Otto, Roughness induced reactions of N_2 and CO_2 on noble and alkali metals 272 (1992) 211

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R. Koch, O. Haase, M. Borbonus and K.H. Rieder, Can Oxygen Modify Step Arrangements? STM and LEED investigations on Ni(771) 272 (1992) 17
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W. Akemann and A. Otto, Roughness induced reactions of N_2 and CO_2 on noble and alkali metals 272 (1992) 211
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D. Sander, U. Linke and H. Ibach, Adsorbate-induced surface stress: sulfur, oxygen and carbon on Ni(100) 272 (1992) 318
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F. Besenbacher, I. Stensgaard, L. Ruan, J.K. Nørskov and K.W. Jacobsen, Chemisorption of H, O, and S on Ni(110): general trends 272 (1992) 334

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T. Michely, T. Land, U. Littmark and G. Comsa, Morphological effects induced by the formation of a Pt-adatom lattice gas on Pt(111) 272 (1992) 204
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G. Brusdeylins, N.S. Luo, P. Ruggerone, D. Schmicker, J.P. Toennies, R. Vollmer and Th. Wach, Interface mode for NaCl overlayers on the Ge(001) surface 272 (1992) 358

Surface structure, see also Low energy electron diffraction
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C. de Beauvais, D. Rouxel, B. Mutaftschiev and B. Bigeard, Commensurate phases and phase transitions in quasi-compact submonolayers of Pb/Cu(110) 272 (1992) 73

D. Sander, U. Linke and H. Ibach, Adsorbate-induced surface stress: sulfur, oxygen and carbon on Ni(100) 272 (1992) 318
F. Besenbacher, I. Stensgaard, L. Ruan, J.K. Nørskov and K.W. Jacobsen, Chemisorption of H, O, and S on Ni(110): general trends 272 (1992) 334
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M. Abdelmoula, T. Ceva, B. Croset and N. Dupont-Pavlovsky, Krypton adsorption on (0001) graphite preplated with carbon tetrachloride 272 (1992) 167
D. Marx, Phase diagram of a model adsorbate with internal quantum states 272 (1992) 198
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J. Heidberg, E. Kampshoff, R. Kühnemuth and O. Schönekäs, Polarization-FTIR-spectroscopic study of the 2D-gas–solid transition in CO_2 on NaCl(100): reorientation, correlation field breakdown, heats of adsorption and 2D-condensation 272 (1992) 306

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L. Schröter, Chr. Trame, R. David and H. Zacharias, State specific velocity distribution of hydrogen isotopes desorbing from Pd(100) 272 (1992) 229
F. Besenbacher, I. Stensgaard, L. Ruan, J.K. Nørskov and K.W. Jacobsen, Chemisorption of H, O, and S on Ni(110): general trends 272 (1992) 334
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